

(19) JAPANESE PATENT OFFICE

JP

(11) Publication number (Patent number): 2000224261

(21) Application number: 2000016786

(22) Date of filing: 20000126

(51) Int. Cl. H04L 29 /10

H04B 7 /26

H04L 1 /18

H04L 12 /56

DATA LINK CONTROL PROTOCOL DIRECTLY
SUPPORTING NETWORK LAYER PROTOCOL AND ITS
METHOD

(57) Abstract:

PROBLEM TO BE SOLVED: To obtain a data link control protocol for a 3G radio communication system that directly supports a network layer protocol.

SOLUTION: A link layer is provided with a link access control(LAC) sub layer and a medium access control(MAC) sub layer. In a transmission termination of a radio system, a plurality of QoS data planes are generated to directly support a QoS of an Internet protocol. A data packet received by the LAC sub layer is transferred to the QoS data plane according to specific QoS information included therein and processed according to the specific QoS condition and LAC frames of various sizes are generated. The LAC frames of various sizes are transmitted to the MAC sub layer and a data unit (RLP PDU) of a radio link protocol transmitted to a receiver termination is generated. Since the size of the LAC PDU can be dynamically adjusted in response to a state of the communication link, error correction of a new level is given to the LAC sub layer.

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